

## SEQUENCE LISTING

SEQ 1: *Arabidopsis thaliana* GAD1

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1   atgggtgctct cccacgccgt atcggagtcg gacgtctccg tocactccac attcgcacatca
61  cgttacgtcc  gtacttcact tcctaggttc aagatgccgg aaaactcgat tcctaaggaa
121 gcggcgtatc  agatcatcaa cgacgagctg atgcttgacg ggaatccacg gttgaactta
181 gcctcctttg  tgacgacatg gatggagcct gagtgtgata aactcatcat gtcctccatc
241 aacaagaact  atgttgacat ggacgagtac cccgtcacca ccgaacttca gaaccgatgt
301 gtgaacatga  ttgcacatct attcaatgca ccgtagaag  aggcggagac cgccgtcgga
361 gtaggaaccg  ttggatcatc ggaggccata atgttggccg gtttggcctt caagcgtaaa
421 tggcagaaca  agcgcaaagc tgaaggcaaa cccgtcgata aaccaacat  tgaccaccga
481 gccaatgttc  aagtgtgttg ggagaaattc gctaggtact ttgaggttga acttaaggaa
541 gtgaaattga  gtgaaggata ctatgtgatg gacctcaac  aagctgttga tatggttgat
601 gagaacacca  tttgtgttgc ggacattctt ggttccactc ttaatggaga attcgaagat
661 gttaaactct  tgaacgatct cttggtcgaa aagaacaaag aaaccggatg ggatacacca
721 atccacgtgg  atgcggcaag tggaggattc attgcaccgt ttttztatcc ggaattggaa
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1381 aagagtgaat  ctaacagcga taacttgatg gtcacggtga agaagagcga tatcgacaag
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1501 atctgctaa

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SEQ2: *Arabidopsis thaliana* GAD1

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MVLSHAVSESDVSVHSTFASRYVRTSLPRFKMPENSI PKEAAYQI INDELMLDGNPRLNLA SFVTTWME
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RKWQNKRAEGKPVDPKPNIVTGANVQVCWEKFARYFEVELKEVKLSEGYVMDPQQAVDMVDENTICVA
DILGSTLNGEFEDVKLLNDLLVEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVS GH
KYGLVYAGIGWVIWRNKEDLPEELIFHINYLGADQPTFTLNF SKSSQVIAQYYQLIRLGHEGYRNVME
NCRENMIVLREGLEKTERFNIVSKDEGVPLVAFSLKDSCHTEFEI SDMLRRYGWIVPAYTMP PNAQHI
TVLRRVIREDFSRTLAERLVIDIEKVMRELDLPSRVIHKISL GQEKSESNSDNLMVTVKKS DIDKQRD
IITGWKKFVADRKKTS GIC

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SEQ 3: *Arabidopsis thaliana* GAD2

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1   ctaaacagaa acaaagatgg ttttgacaaa aaccgcaacg aatgatgaat ctgtctgcac
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421 cttcaaaaga  aaatggcaga acaaacgcaa ggctgagggg aaaccctatg acaaacccaa
481 cattgtcact  ggagccaatg ttcaagtttg ctgggagaaa ttcgctcgg  acttcgaggt
541 ggagctaaag  gaagtaaacc taagtgaagg ttactacgtg atggatccag acaaagcagc
601 agaaatggta  gacgagaaca caatctgtgt cgcagccata ttgggatcca cactcaacgg
661 tgagttcgaa  gacgtgaaac gtctcaatga cttgctagtc aagaaaaacg aggagactgg
721 ttggaacaca  ccgatccacg tggatgcagc aagtggaggg ttcatagctc cgtttatcta
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CC-0.2017





NCRENMMVLRQGLEKTGRFKIVSKENGVPLVAFSLKDSRHNFEVAHTLRRFGWIVPAYTMPADAQHV  
TVLRVVIREDFSRSLAERLVADFEKVLHELDLTPARVHAKMANGKVNGVKKTPREETQREVTA YWKKLLE  
TKKTNKNTIC

SEQ 9: *Arabidopsis thaliana* GAD5

ATGGTACTCGCAACCAACTCTGACTCCGACGAGCATTTCATTCCACTTTTGCTTCTAGATATGTCCGT  
GCTGTTGTTCCCAGGTTCCAGAGAGTTTGCCTCATTTTAGTTTTTTAAATCTTGTATGCTACATTTGTT  
ATATATTTAATTTATTTATGTATCTGTTCATATATTGAAACAGGTTCAAGATGCCTGACCATTGCATG  
CCCAAAGATGCTGCTTATCAAGTGATCAATGATGAGTTGATGCTTGATGGTAATCCCAGGCTTAACCTA  
GCCTCCTTTGTCACCACTTGGATGGAACCTGAGTGTGACAACTCATCATGGATTCTGTCAATAAGAAC  
TATGTTGATATGGATGAATATCCTGTCACTGAGCTCCAGGTTCTCCTTCTTTCTCCTCATTTCTCT  
CTCTCATCTACTTTCCACTGTTTTGTCATAGACTCATAACATCTTTTATCTGGCTTATTTTTTCAGAACCG  
GTGTGTAATAATGATAGCAAACCTTGTTCATGCTCCCCTGGAGAAGACGAGGCTGCTATTGGGTGTGG  
AACTGTTGGTTCATCTGAGGCTATAATGCTTGGCTGGTTTTGGCTTTCAAAGGAAATGGCAACATAGGAG  
AAAAGCTCAGGGTCTACCTATTGATAAGCCTAACATTTGTCACTGGAGCCAATGTTTCAGGCTTAAAATAT  
TTACTTATTCTTATCCTCCAAACCATCACATTTGCTTTGGATAGTGATCTGTTCCTTTCCAATATCAAT  
ACATTTTTCAAACCTTTGTTTTCATCCGCTCAGGTGTGCTGGGAGAAGTTTGAAGGTACTTTGAGGTAGAG  
CTCAAAGAGGTGAAACTAAGTGAAGACTACTATGTTATGGATCCAGCTAAAGCTGTAGAGATGGTGGAT  
GAGAATACCATCTGTGTTGAGCAATTTCTAGGATCCACACTTACTGGAGAGTTTGAAGACGTTAAGCAA  
TTGAACGATCTCTTAGCTGAGAAAAACGCAGAGACAGGATGGGAAACTCCTATTTCATGTTGATGCAGCC  
AGTGGAGGATTCATTGCTCCTTTCTCTACCTGATCTTGAATGGGACTTTAGGCTTCCATGGGTGAAG  
AGTATTAACGTCAGTGGTCAAGATATGGACTTGTGTATGCAGGAGTTGGTTGGGTGTCTGGAGAACA  
AAAGATGATTTGCCAGAGGAACCTGTCTTCCACATCAACTACTTTGGGAGCTGATCAACCCACTTTCACT  
CTCAACTTCTCAAAGGTTTTGTAATAAAAACTGGCTTTATCCAATCAAATCCATCATCACATTTCCCT  
TTAAGAACTCAATGTTTTCTTTTGCAGGTCGAGCCAAATCATTTGCTCAGTACTATCAGTTTATCCGA  
CTAGGCTTTGAGGTACTTGTTCCTTATCTGCATTACAGTTTCATTTTTTCATCTTGCTTAATCTAATG  
ATTCTTTTTGGAACTGGAAAAGGGATACAAGAACATAATGGAAAACGTCATGGATAACGCAAGGAGGC  
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GGATCATAACCGGCTTACACTATGCCTGCAGATGCACAGCACATTGCTGTGCTCAGAGTTGTGATAAGAG  
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GGCTTCCTAGCAGGATTCACATCTTGTGCGGGCTGCAGCGGTTAGTGGTGATGATGAAGAAGTTAAAG  
TGAAGACTGCCAAGATGTCTTGGAGGATATCACTAAGTATTGGAAAACGCCTTGTGGAACACAAGAGAA  
ATATTGCTCTGCTAA

SEQ 10: *Arabidopsis thaliana* GAD5

MVLATNSDSDEHLHSTFASRYVRAVVPFRKMPDHCKMPKDAAYQVINDELMLDGNPRLNLSFVTTWMEP  
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KWQHRRKAQGLPIDKPNIVTGANVQVCWEKFAFYFEVELKEVKLSEDIYVMDPAKAVEMVDENTICVAA  
ILGSTLTGEFEDVKQLNDLLAEKNAETGWETPIHVDAASGGFIAPFLYPDLEWDFRLPWVKSINVSCHK  
YGLVYAGVGVWVWRKDDLPBELVVFHINYLGADQPTFLNFSKSSQIIAQYYQFIRLGFEGYKNIMEN  
CMDNARRLREGIEMTKGFNIVSKDIGVPLVAFSLKDSKHTVFEIAESLRKFGWIIIPAYTMPADAQHIA  
VLRVVIREDFSRGLADRLITHIIQVLKEIEGLPSRI AHLAAAAVSGDDEEVKVKTA KMSLEDITKYWK  
RLVEHKRNIVC

SEQ 11: Tobacco *NtGAD1*

1	aaaatatctc	cattttctcc	cttgtttttag	tctctgatct	tctccgctcg	actaccacca
61	ctacgcccgc	atggttctgt	ccaagacagc	gtcggaaagt	gacgtctcca	tccactccac
121	tttcgcttcc	cgatctgttc	gtacttctct	tccgaggttt	aagatgccag	agaattcgat
181	accaaaaggaa	gcagcatatc	aatcataata	tgatgagctt	atgtagatg	gaaatccaag
241	actaaattta	gcatcttttg	tgacaacatg	gatggaacca	gagtgaaca	aactgatgat
301	ggattccatt	aacaagaatt	acgttgacat	ggatgaatac	cctgtaacca	ctgaaactca
361	gaatcgatgt	gtaaacaatga	tagctcattt	gtttaacgca	ccacttgag	atggagagac
421	tgacggttga	gttggaactg	ttggatcctc	tgaggctatt	atgcttgctg	gattagcttt
481	caagagaaaa	tgcaaaaata	aatgaaagc	ccaaggcaag	ccctgtgaca	agcccaatat
541	tgctcactggt	gccaatgtcc	aggtgtggtg	ggagaaattt	gcaaggattt	ttgaagtgga
601	gctaaaaggaa	gtaaagttga	gtgatggata	ctatgtgatg	gaccctgaga	aagctgtgga
661	aatgggtggat	gagaacacaa	tttgtgtagc	tgctatcttg	ggttccacac	tcaatgggtga



SEQ 14: Tobacco NtGAD2

MVLSKTASESDVSVHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME  
PECNTLMMDSINKNYVDMDEYPVTELQNRVNMIAHLFNAPLGDGETAVGVGTVGSSEAIMLAGLAFK  
RKWQNKMKQAQKPFDPKPNIVTGANVQVCWEKFARYFEVELKEVKLSGGYVMDPEKAVEMVDENTICVA  
AILGSTLNGEFEDVKRLNDLLIEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLEKSINVS  
GHKYGLVYAGIGWAIWRNKEDLPDELIFHINYLGADQPTFTLNFSKGSQVIAQYYQLIRLGFEGYKNVME  
NCQENARVLRGIEKSGRFNIIISKEIGVPLVAFSLKDNSQHNEFEISETLRRFGWIVLAYTMPNAQHV  
TVLRVVIREDFSRTLAERLVIDIEKVFHGVDTLPARVNAKLAVAEANGSGVHKKTDREVQLEITTAWLK  
FVADKKKKTNGVC

SEQ 15: Petunia GAD

1 aaagagtaca aactaatatc cacttaaatt gtatttctcc attttctctc tttatttagt  
61 ctgtcataac aatgggttcta tcaaagacag tgtcgcagag cgatgtgtcc attcactcca  
121 cgtttgcttc tcgatatggt cgaacttctc ttcccagggt taaaatgcca gataattcga  
181 taccaaaaga agcagcatat cagatcataa atgatgaact gatgtagat ggaaacccaa  
241 ggctgaactt ggcttctttt gttacaacat ggatggaacc agagtgtgat aagttagatga  
301 tggactctat taacaagaac tatggtgata tggatgaata tcctgttacc actgagcttc  
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421 ctgcagttgg agttggaact gttggatcct ctgaagccat tatgcttgct ggattagctt  
481 tcaagagaaa atggcagaac aaaatgaaag ccaaggcaa accctgtgac aagcccaaca  
541 ttgttactgg tgcaaatgct caggtgtgct gggagaaatt tgcaaggtat tgaagtgg  
601 agctaaagga agtaaagctt agtgaaggat actatgtgat ggaccctgag aaagctgtgg  
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721 aatttgaaga cgtaaagcgc ttgaatgatc tcttggtcga gaagaacaaa gaaaccgggt  
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1501 tgcagttgga gatgataact gcatggaaga agtttgttga agaaaagaag aagaagacta  
1561 atcgagtttg ttaattaatt atattagtggt ttataatatg atgaatatgg ctattatcat  
1621 tgggtactgc ttgttagtat attagctgtg attatcacca atatgagttt ggttttcttg  
1681 atttggttct tttcagtact tgaaaagttg ttattgatat tgtaaaattg tactttttaa  
1741 ctatttggat tattaatgcc aattttctag tgtacttaat aaaaa

SEQ 16: Petunia GAD

MVLSKTVSQSDVSIHSTFASRYVRTSLPRFKMPDNSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME  
PECDKLMMSINKNYVDMDEYPVTELQNRVNMIAHLFNAPLEDGETAVGVGTVGSSEAIMLAGLAFK  
RKWQNKMKQAQKPCDKPNIVTGANVQVCWEKFARYFEVELKEVKLSEGYVMDPEKAVEMVDENTICVA  
AILGSTLNGEFEDVKRLNDLLVEKNKETGWDTPIHVDAASGGFIAPFIYPELEWDFRLPLVKSINVS  
GHKYGLVYAGIGWVWRNKDDLDELIFHINYLGADQPTFTLNFSKGSQVIAQYYQLIRLGYEGYKNVME  
NCQENASVLRGLEKTGRFNIIISKEIGVPLVAFSLKDNRQHNEFEISETLRRFGWIVPAYTMPNAQHI  
TVLRVVIREDFSRTLAERLVRDIEKVLHELDTLPARVNAKLAVAEQAANGSEVHKKTDSEVQLEMIT  
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SEQ 17: Tomato GAD

GenBank

LOCUS #10034

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1      aaaaaatggt gttaacaacg acgtcgataa gagattcaga agagagcttg cactgtacat
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241    catccattaa taaaaactat gtcgacatgg atgagtatcc tgtcaccact gaacttcaaa
301    atagatgtgt taacatgtta gcacatcttt tccatgcccc ggttggtgat gatgagactg
361    cagttggagt tggtagactg ggttcatcag aggcaataat gcttgctggc cttgctttca
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661    ttgaggatgt gaagctccta aacgagctcc ttacaaaaaa gaacaaggaa accggatggg
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1021   agggttataa gaagctcatg aagaattgct tatcaaacgc aaaagtacta acagagggaa
1081   tcacaaaaat ggggcggttc gatattgtct ctaaggatgt ggtgttctt gttgtagcat
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1501   gcgagctctg ctaggtctgg ccacacttgt tatctgggct ccgcttccat cgccatcctg
1561   tagtatgtat tacgtgtgtt gtttccatct tatgtagtag ttggtactgt aatctgtgta
1621   aatgctttca tgatcttggc tctgtatatg ctaaataagc actgcatttc aagttcctgg
1681   aagtatttat gtatgaatca atccgggcat aattggtaga atgccctctc tgcgtcatct
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SEQ 18: Tomato GAD

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KRKWQSKRKAEGKPFDPKNIVTG ANVQVCWEKFARYFEVELKEVKLKEGYVMDPAKAVEIVDENTICV
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1) *Arabidopsis thaliana* ecotype Columbia glutamate decarboxylase 1 (GAD1) cDNA

Note: This is nucleic acid SEQ #1 and amino acid SEQ #2

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A)  LOCUS      ATU10034
     ACCESSION  U10034
     VERSION    U10034.1 GI:497978
     REFERENCE

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3) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD3) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #5 and amino acid SEQ #6

ACCESSION #AC006532  
Part of chromosome #2  
/product="putative glutamate decarboxylase"  
/protein\_id="AAD20093.1"  
/db\_xref="GI:4406783"

4) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD4) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #7 and amino acid SEQ #8

ACCESSION #AC006532  
Part of chromosome #2  
/product="putative glutamate decarboxylase"  
/protein\_id="AAD20099.1"  
/db\_xref="GI:4406789"

5) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD5) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #9 and amino acid SEQ #10

ACCESSION #AB026646  
Part of chromosome #3  
/evidence=not\_experimental  
/product="glutamate decarboxylase"  
/protein\_id="BAB02870.1"  
/db\_xref="GI:9294589"

6) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 1 (NtGAD1) cDNA

Note: This is nucleic acid SEQ #11 and amino acid SEQ #12

A) LOCUS AF020425  
ACCESSION AF020425  
VERSION AF020425.1 GI:3252855  
REFERENCE  
AUTHORS Yun,S.J. and Oh,S.H.  
TITLE Cloning and characterization of a tobacco cDNA encoding  
calcium/calmodulin-dependent glutamate decarboxylase  
JOURNAL Mol. Cells 8 (2), 125-129 (1998)

B) LOCUS NTU54774  
ACCESSION U54774  
VERSION U54774.1 GI:1777920  
REFERENCE  
AUTHORS Dharmasiri,M.A.N., Lu,Y.T. and Harrington,H.M.  
TITLE Cloning and sequencing of a tobacco cDNA encoding glutamate  
decarboxylase  
JOURNAL Unpublished

7) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 2 (NtGAD2)  
cDNA

Note: This is nucleic acid SEQ #13 and amino acid SEQ #14

LOCUS AF020424  
ACCESSION AF020424  
VERSION AF020424.1 GI:3252853  
REFERENCE 1 (bases 1 to 1771)  
AUTHORS Yun,S.J. and Oh,S.H.  
TITLE Cloning and characterization of a tobacco cDNA encoding  
calcium/calmodulin-dependent glutamate decarboxylase  
JOURNAL Mol. Cells 8 (2), 125-129 (1998)

8) Petunia (*Petunia hybrida*) glutamate decarboxylase cDNA

Note: This is nucleic acid SEQ #15 and amino acid SEQ #16

2. LOCUS PETGADX  
ACCESSION # L16797  
VERSION # L16797.1 GI:294111  
KEYWORDS glutamate decarboxylase.  
REFERENCE  
AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.  
TITLE A plant glutamate decarboxylase containing a calmodulin binding  
domain: cloning, sequence, and functional analysis  
JOURNAL J. Biol. Chem. 268, 19610-19617 (1993)

B) LOCUS PETGLUDECA  
ACCESSION L16977  
VERSION L16977.1 GI:309679  
REFERENCE  
AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.  
TITLE A plant glutamate decarboxylase containing a calmodulin-binding  
domain: cloning sequence and functional analysis  
JOURNAL J. Biol. Chem. (1993)

9) Tomato (*Lycopersicon esculentum*) glutamate decarboxylase-like protein LEGDL  
cDNA

Note: This is nucleic acid SEQ #17 and amino acid SEQ #18

ACCESSION X80840

VERSION X80840.1 GI:993002

REFERENCE

AUTHORS Gallego,P.P., Whotton,L., Picton,S., Grierson,D. and Gray,J.E.

TITLE A role for glutamate decarboxylase during tomato ripening: the characterization of a cDNA encoding a putative glutamate decarboxylase with a calmodulin-binding site

JOURNAL Plant Mol. Biol. 27 (6), 1143-1151 (1995)